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| FORM PCT/1390<br>MODIFIED   | U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE | ATTORNEY'S DOCKET NUMBER<br><b>124-1108</b>                                       |
| TRANSMITTAL LETTER TO THE UNITED STATES<br>DESIGNATED/ELECTED OFFICE (DO/EO/US)<br>CONCERNING A FILING UNDER 35 U.S.C. 371  |   | U.S. APPLICATION NO. (If known, see 37 C.F.R. 1.5)<br><b>10/527329</b><br>unknown |
| INTERNATIONAL APPLICATION NO.<br><b>PCT/GB03/03882</b>  | INTERNATIONAL FILING DATE<br><b>8 September 2003</b>    | PRIORITY DATE CLAIMED<br><b>10 September 2002</b>                                 |
| TITLE OF INVENTION<br><b>COHERENT DIFFERENTIAL ABSORPTION LIDAR (DIAL)</b>  |   |   |
| APPLICANT(S) FOR DO/EO/US<br><b>BRYCE et al.</b>  |   |   |
| <p>Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:</p> <ol style="list-style-type: none"> <li><input checked="" type="checkbox"/> This is a <b>FIRST</b> submission of items concerning a submission under 35 U.S.C. 371.</li> <li><input type="checkbox"/> This is a <b>SECOND</b> or <b>SUBSEQUENT</b> submission of items concerning a submission under 35 U.S.C. 371.</li> <li><input checked="" type="checkbox"/> This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below.</li> <li><input type="checkbox"/> The U.S. has been elected (Article 31).</li> <li>A copy of the International Application as filed (35 U.S.C. 371(c)(2)).             <ol style="list-style-type: none"> <li><input checked="" type="checkbox"/> is attached hereto (23 pages specification, claims &amp; abstract (13 claims), 5 sheets drawings).</li> <li><input checked="" type="checkbox"/> has been communicated by the International Bureau.</li> <li><input type="checkbox"/> is not required, as the application was filed in the United States Receiving Office (RO/US).</li> </ol> </li> <li><input type="checkbox"/> An English language translation of the International Application as filed (35 U.S.C. 371(c)(3))             <ol style="list-style-type: none"> <li><input type="checkbox"/> is attached hereto (      pages specification, claims &amp; abstract (      claims),      sheets drawings,      page Certificate of Translation).</li> <li><input type="checkbox"/> has been previously submitted under 35 U.S.C. 154(d)(4).</li> </ol> </li> <li><input type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))             <ol style="list-style-type: none"> <li><input type="checkbox"/> are attached hereto (required only if not communicated by the International Bureau).</li> <li><input type="checkbox"/> have been communicated by the International Bureau.</li> <li><input type="checkbox"/> have not been made; however, the time limit for making such amendments has <b>NOT</b> expired.</li> <li><input type="checkbox"/> have not been made and will not be made.</li> </ol> </li> <li><input type="checkbox"/> An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).             <ol style="list-style-type: none"> <li><input checked="" type="checkbox"/> An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).</li> <li><input type="checkbox"/> Declaration was submitted to the International Bureau during International Phase (see copies of Declaration (      page Form PCT/RO/101 and Form PCT/IB/371 and first page of printed publication acknowledging receipt thereof attached).</li> </ol> </li> <li><input type="checkbox"/> An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).</li> </ol> <p><b>Items 11 To 20 below concern document(s) or information included:</b></p> <ol style="list-style-type: none"> <li><input type="checkbox"/> An Information Disclosure Statement under 37 C.F.R. 1.97 and 1.98.</li> <li><input checked="" type="checkbox"/> An assignment document for recording. A separate cover sheet in compliance with 37 C.F.R. 3.28 and 3.31 is included.</li> <li> <ol style="list-style-type: none"> <li><input checked="" type="checkbox"/> A FIRST preliminary amendment.</li> <li><input type="checkbox"/> A SECOND or SUBSEQUENT preliminary amendment.</li> </ol> </li> <li><input type="checkbox"/> An Application Data Sheet under 37 C.F.R. § 1.76.</li> <li><input type="checkbox"/> A substitute specification.</li> <li><input type="checkbox"/> A change of power of attorney and/or address letter.</li> <li><input type="checkbox"/> A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821-1.825.</li> <li><input type="checkbox"/> A second copy of the published international application under 35 U.S.C. 154(d)(4).</li> <li><input type="checkbox"/> A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).</li> <li><input checked="" type="checkbox"/> Other items or information. PTO Form 1449 listing references cited in International Search Report and GB Search Report (attached)</li> </ol> |   |   |

DT15 Rec'd PCT/PTO 10 MAR 2005

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| U.S. APPLICATION NO. (If known, see 37 C.F.R. 1.5)<br><b>10/527329</b>  |              | INTERNATIONAL APPLICATION NO.<br><b>PCT/GB03/03882</b>                        |         | ATTORNEY'S DOCKET NUMBER<br><b>124-1108</b> |                           |
| 21. <input checked="" type="checkbox"/> The following fees are submitted:   |              |   |         |   |                           |
| <b>BASIC NATIONAL FEE (37 C.F.R. 1.492(a)(1)-(5)):</b>  |              |   |         |   |                           |
| <input checked="" type="checkbox"/> a) Basic national fee .....   |              |   |         | \$300.00 (1631)/\$150.00 (2631)             | \$ 300.00                 |
| <input checked="" type="checkbox"/> b) Examination Fee .....  |              |   |         | \$200.00 (1633)/\$100.00 (2633)             | \$ 200.00                 |
| <input checked="" type="checkbox"/> c) Search Fee .....   |              |   |         | \$500.00 (1632)/\$250.00 (2632)             | \$ 500.00                 |
| <b>TOTAL OF ABOVE CALCULATIONS .....</b>  |              |   |         | <b>\$1000.00/\$500.00</b>                   | <b>\$ 1000.00</b>         |
| <input type="checkbox"/> Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing or computer program listing filed in an electronic medium). The fee is \$250 for each additional 50 sheets of paper or fraction thereof.  |              |   |         |   |                           |
| Total Sheets  | Extra Sheets | Number of each additional 50 or fraction thereof (round up to a whole number) |         | RATE  |                           |
| 28 -100   | 0 /50 =      | 0.00  |         | \$250.00 (1681)                             | \$                        |
|   |              |   |         | \$125.00 (2681)                             |                           |
| Surcharge of \$130.00 (1617)/\$65.00 (2617) for furnishing the oath or declaration later than <input type="checkbox"/> 30 months from the earliest claimed priority date (37 C.F.R. 1.492(e)).  |              |   |         |   |                           |
| CLAIMS  |              | NUMBER FILED  | # EXTRA | RATE  |                           |
| Total Claims  | 12           | minus 20 =  | 0 X     | \$50.00 (1615)/                             | \$25.00 (2615)            |
| Independent Claims  | 2            | minus 3 =   | 0 X     | \$200.00 (1614)                             | \$100.00 (2614)           |
| MULTIPLE DEPENDENT CLAIMS(S) (if applicable)  |              |   |         | \$360.00 (1616)/\$180.00 (2616)             | \$ 0.00                   |
| Petition is hereby made to extend the current due date so as to cover the filing date of this paper and attachment(s): One Month Extension \$120.00 (1251)/\$60.00 (2251); Two Month Extensions \$450.00 (1252)/\$225.00 (2252); Three Month Extensions \$1020.00 (1253)/\$510.00 (2253); Four Month Extensions \$1590.00 (1254)/\$795.00 (2254)  |              |   |         |   | \$ 0.00                   |
| <input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27.   |              |   |         |   |                           |
| Processing fee of \$130.00 (1618), for furnishing the English Translation later than <input type="checkbox"/> 20 <input type="checkbox"/> 30 months from the earliest claimed priority date (37 C.F.R. 1.492(f)).   |              |   |         |   | 0.00                      |
| <b>TOTAL NATIONAL FEE =</b>   |              |   |         |   | <b>\$ 1000.00</b>         |
| Fee for recording the enclosed assignment (37 C.F.R. 1.21(h). The assignment must be accompanied by an appropriate cover sheet (37 C.F.R. 3.28, 3.31). \$40.00 (8021) per property  |              |   |         |   | \$ 40.00                  |
| Fee for Petition to Revive Unintentionally Abandoned Application; \$1500.00 (1453) / \$750.00 (2453)  |              |   |         |   | \$ 0.00                   |
| <b>TOTAL FEES ENCLOSED =</b>  |              |   |         |   | <b>\$ 1040.00</b>         |
|   |              |   |         |   | Amount to be: refunded \$ |
|   |              |   |         |   | Charged \$                |
| a. <input type="checkbox"/> A check in the amount of \$1040.00 to cover the above fees is enclosed.<br>b. <input type="checkbox"/> Please charge my Deposit Account No. 14-1140 in the amount of \$_____ to cover the above fees. A duplicate copy of this form is enclosed.<br>c. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 14-1140. A <u>duplicate</u> copy of this form is enclosed.<br>d. <input checked="" type="checkbox"/> <b>CREDIT CARD PAYMENT FORM ATTACHED.</b><br>e. <input checked="" type="checkbox"/> The entire content of International Application No. PCT/GB03/03882 and any U.S. and foreign application(s) corresponding thereto, and GB 0220914.6, referred to in this application is/are hereby incorporated by reference in this application.<br><b>NOTE: Where an appropriate time limit under 37 C.F.R. 1.494 or 1.495 has not been met, a petition to revive (37 C.F.R. 1.137(a) or (b) must be filed and granted to restore the application to pending status.</b><br><b>CORRESPONDENCE ADDRESS</b><br><b>Direct all correspondence to:</b><br><input checked="" type="checkbox"/> <b>Customer Number:</b> <span style="border: 1px solid black; padding: 2px 10px;"><b>23117</b></span><br><div style="text-align: center; font-size: small;">Type Customer Number here</div> |              |   |         |   |                           |
| Telephone: (703) 816-4000<br>SCS:alb <div style="text-align: right; margin-top: 20px;"> <br/> <b>Stanley C. Spooner</b><br/> NAME<br/> <b>27,393</b>                      <b>March 10, 2005</b><br/> REGISTRATION NUMBER                      Date </div>   |              |   |         |   |                           |